Amendments to the Claims

All amendments and cancellations to the claims are made without prejudice or disclaimer. This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Cancelled)

2. (Previously presented) The transcription factor of claim 5 wherein the cell is a vertebrate cell, and presence of the transcription factor in the cell can induce a neuronal phenotype in the cell.

3. (Previously presented) The transcription factor of claim 5 wherein the cell is a vertebrate cell, and presence of the transcription factor in the cell can induce neurite extension in the cell.

4. (Cancelled)

5. (Currently amended) An isolated transcription factor that comprises a first, second and third zinc finger domain in this order, wherein presence of the transcription factor in a vertebrate cell can alter the differentiation state of the cell, the transcription factor further comprises an activation domain, and the DNA contacting residues of the first, second, and third domains are as follows:

(i) glutamine at position -1 of the first zinc finger domain; serine at position 2 of the first zinc finger domain; asparagine at position 3 of the first zinc finger domain; and arginine at position 6 of the first zinc finger domain;

(ii) glutamine at position -1 of the second zinc finger domain; serine at position 2 of the second zinc finger domain; asparagine at position 3 of the second zinc finger domain; and lysine at position 6 of the second zinc finger domain; and

(iii) cysteine at position -1 of the third zinc finger domain; serine at position 2 of the third zinc finger domain; asparagine at position 3 of the third zinc finger domain; and arginine at position 6 of the third zinc finger domain.

6. (Previously presented) An isolated transcription factor that comprises amino acids 31 to 109 of SEQ ID NO:2.

7-13. (Cancelled)

14. (Previously presented) An isolated recombinant cell that contains the transcription factor of claim 6.

15-21. (Cancelled)

22. (Previously presented) The transcription factor of claim 2 wherein the zinc finger domains are domains from different naturally occurring proteins.

23. (Previously presented) The transcription factor of claim 22 wherein the zinc finger domains are domains from different naturally occurring human proteins.

24. (Previously presented) The transcription factor of claim 3 wherein the cell is a mouse neuroblastoma cell.

25-29. (Cancelled)

30. (Previously presented) An isolated recombinant cell that contains the transcription factor of claim 2.

31. (Previously presented) An isolated recombinant cell that contains the transcription factor of claim 5.

32-35. (Cancelled)

36. (Previously presented) The transcription factor of claim 5 wherein

(i) the first zinc finger domain comprises SEQ ID NO:177, or an amino acid sequence that differs by no more than three substitutions;

(ii) the second zinc finger domain comprises SEQ ID NO:162, or an amino acid sequence that differs by no more than three substitutions; and

(iii) the third zinc finger domain comprises SEQ ID NO:173, or an amino acid sequence that differs by no more than three substitutions.

37. (Previously presented) The transcription factor of claim 36 wherein

(i) the first zinc finger domain comprises SEQ ID NO:177, or an amino acid sequence that differs by no more than two substitutions;

(ii) the second zinc finger domain comprises SEQ ID NO:162, or an amino acid sequence that differs by no more than two substitutions; and

(iii) the third zinc finger domain comprises SEQ ID NO:173, or an amino acid sequence that differs by no more than two substitutions.

38. (Previously presented) The transcription factor of claim 37 wherein

(i) the first zinc finger domain comprises SEQ ID NO:177;

(ii) the second zinc finger domain comprises SEQ ID NO:162; and

(iii) the third zinc finger domain comprises SEQ ID NO:173.

39. (Previously presented) The transcription factor of claim 5 that comprises an amino acid sequence at least 90% identical to amino acids 31 to 109 of SEQ ID NO:2.

40. (Previously presented) The transcription factor of claim 5 that comprises an amino acid sequence at least 95% identical to amino acids 31 to 109 of SEQ ID NO:2.

41. (Previously presented) The transcription factor of claim 5 that comprises an amino acid sequence at least 97% identical to amino acids 31 to 109 of SEQ ID NO:2.